VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 12.12.2019

TEST REPORT

CLIENT	:	Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
AGENCY	:	M/s. Technical Manager (West), KRIDL, Bengaluru
NAME OF THE WORK	:	Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division
SAMPLE ID	:	Cement (ACC – OPC 53 Grade)
DATE OF MANUFACTURE	:	November - 2019
DATE OF TESTING	:	10.12.2019 to 12.12.2019
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	445 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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VSR CIVIL INFRA PVT. LTD.

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Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date 12.12.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.
Agency : **M/s. Technical Manager (West), KRIDL, Bengaluru**
Name of Work : Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Date of Testing 12.12.2019

Material : Sand Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	32	3.20	3.20	96.8	90-100
2.36	152	15.20	18.40	81.6	75-100
1.18	163	16.30	34.70	65.3	55-90
600 Micron	154	15.40	50.10	49.9	35-59
300 Micron	255	25.50	75.60	24.4	8-30
150 Micron	165	16.50	92.10	7.9	0-10

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VSR CIVIL INFRA PVT. LTD.

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Job No.: CSC/BBMP/KRIDL/W.No.26/2019-20

Date 12.12.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West), KRIDL, Bengaluru**

Name of Work : Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Date of Testing 12.12.2019

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	422	2.81	2.81	97.19	95-100
20	5215	34.77	37.58	62.42	30-70
10	4652	31.01	68.59	31.41	10-35
4.75	4121	27.47	96.07	3.93	0-5

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Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 12.12.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West), KRIDL, Bengaluru**

Name of Work : Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Date of Testing 12.12.2019

Material : 20mm Aggregates

Total wt. of aggregates in gms = 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	165	3.3	3.3	96.7	95-100
10	2325	46.5	49.8	50.2	25-55
4.75	2121	42.4	92.2	7.8	0-10

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VSR CIVIL INFRA PVT. LTD.

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Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 14.12.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.
Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru
Name of Work : Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Sample Identification : 8mm,10mm,12mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 14.12.2019

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on gauge length
1	Fe 500	8	0.33	538	548	14
2	Fe 500	10	0.65	552	561	15
3	Fe 500	12	0.84	565	575	15.5

Remarks:
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VSR CIVIL INFRA PVT. LTD.

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Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 09.01.2020

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Executive Engineer**, Yelahanka Division, BBMP, Bengaluru.
Contractor	:	**M/s. Technical Manager (West)**, KRIDL, Bengaluru
Name of Work	:	Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division
No.of Sample Tested	:	03
Date of Testing	:	09.01.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.359	2314.39	1.58	0.960	33.50	17.06	18.43	17.69	22.11
2	50.00	81.00	0.372	2338.99	1.62	0.960	36.20	18.44	19.91	19.11	23.89
3	50.00	84.00	0.393	2382.78	1.68	0.960	34.50	17.57	18.98	18.22	22.77

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Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 09.01.2020

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Contractor	:	M/s. Technical Manager (West), KRIDL, Bengaluru
Name of Work	:	Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division
No.of Sample Tested	:	03
Date of Testing	:	09.01.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	169.00	3.095	2331.76	1.69	0.960	140.30	17.86	19.29	18.52	23.15
2	100.00	171.00	3.165	2356.61	1.71	0.960	139.60	17.77	19.20	18.43	23.04
3	100.00	173.00	3.225	2373.52	1.73	0.960	137.20	17.47	18.87	18.11	22.64

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Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 15.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work :Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

SlNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2019	15.01.2020	8.213	502.3	22.32
2	18.12.2019	15.01.2020	8.225	523.4	23.26
3	18.12.2019	15.01.2020	8.236	512.4	22.77

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Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 15.01.2020

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.
Agency	: **M/s. Technical Manager (West),** KRIDL, Bengaluru
Name of the work	:Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2019	15.01.2020	8.215	495.6	22.03
2	18.12.2019	15.01.2020	8.232	503.2	22.36
3	18.12.2019	15.01.2020	8.245	514.3	22.86

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Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 25.12.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work :Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2019	25.12.2019	8.154	355.2	15.79
2	18.12.2019	25.12.2019	8.162	361.4	16.06
3	18.12.2019	25.12.2019	8.174	352.6	15.67

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Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 15.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work :Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2019	15.01.2020	8.231	502.3	22.32
2	18.12.2019	15.01.2020	8.245	526.3	23.39
3	18.12.2019	15.01.2020	8.226	512.7	22.79

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Engineering Project Consultants

No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 16.01.2020

TEST REPORT ON CONCRETE CUBES

ient : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

gency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

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echnical Reference : IS: 516-1959 (Reaffirmed 2008)

rade of Concrete : M_{20}

ompressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.12.2019	16.01.2020	8.225	501.3	22.28
2	19.12.2019	16.01.2020	8.264	523.6	23.27
3	19.12.2019	16.01.2020	8.214	512.4	22.77

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Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 16.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work :Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.12.2019	16.01.2020	8.225	502.3	22.32
2	19.12.2019	16.01.2020	8.232	523.6	23.27
3	19.12.2019	16.01.2020	8.241	512.4	22.77

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Date: 17.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work :Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.12.2019	17.01.2020	8.225	506.3	22.50
2	20.12.2019	17.01.2020	8.264	493.1	21.92
3	20.12.2019	17.01.2020	8.251	412.5	18.33

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 17.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work :Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.12.2019	17.01.2020	8.231	502.3	22.32
2	20.12.2019	17.01.2020	8.241	515.6	22.92
3	20.12.2019	17.01.2020	8.265	523.4	23.26

Note:

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Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 27.12.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work :Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.12.2019	27.12.2019	8.165	355.2	15.79
2	20.12.2019	27.12.2019	8.142	361.4	16.06
3	20.12.2019	27.12.2019	8.174	348.2	15.48

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Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 17.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work :Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Sateilite Town Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.12.2019	17.01.2020	8.222	496.3	22.06
2	20.12.2019	17.01.2020	8.265	513.5	22.82
3	20.12.2019	17.01.2020	8.234	523.4	23.26

Note:

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